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				First Named Invent r	Joseph SCHLESSINGER	
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				Examiner Name	unassigned	
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	·			F	OREIGN PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Office	oreign Patent Doo 3 Number ⁴	Cument Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Retevant Figures Appear	Ţ	
Ø/	A1	wo	94/03610	A1	FARMITALIA CARLO ERBA S.R.L.	02-17-1994			
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<u>·</u>		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
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2	А3	CANNOLL et al., "The Expression of a novel receptor-type tyrosine phosphatase suggests a role in morphogenesis and plasticity of the nervous system," <u>Developmental Brain Research</u> , 15 October 1993, pp. 293-298, Vol. 75, No. 2	
B /	A4	CARNEY et al., "Monoclonal antibody specific for an activated RAS protein," <u>Proc. Nat. Acad. Sci. USA,</u> October 1986, pp. 7485-7489, Vol. 83	-
V	A5	GUAN et al., "Protein Tyrosine Phosphatase Activity of an Essential Virulence Determinant in Yersinia," Science, 3 August 1990, pp. 553-556, Vol. 249	
V	A6	KRUEGER and SAITO, "A human transmembrane protein-tyrosine-phosphatase, PTP, is expressed in brain and has an N-terminal receptor domain homologous to carbonic anhydrases," <u>Proc. Natl. Acad. Sci. USA</u> , 1992, pp. 7417-7421, Vol. 89, No. 16	
8	A7	LEVY et al., "The cloning of a receptor-type protein tyrosine phosphatase expressed in the central nervous system," <u>Journal of Biological Chemistry</u> , 15 May 1993, pp. 10573-10581, Vol. 268, No. 14	. :
8	A8	SAIKI et al., "Enzymatic amplification of β-globin genomic sequences and restriction site analysis for diagnosis of sickle cell anemia," <u>Science</u> , 20 December 1985, pp. 1350-1354, Vol. 230	·
8	A9	SCOPES, Protein Purification: Principles and Practice, Springer-Verlag, New York, 1987 Only (onto

Examiner Signature	8	Date Considered	10/18/03

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LIST OF REFERENCES CITED BY APPLICANT

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U.S. PATENT DO DOCUMENT NUMBER FOREIGN PATENT DOCUMENT NUMBER DATE AA WO 92/01050 1/23/92 PCT -AB WO 94/01119 1/20/94 **PCT** OTHER REFERENCES (Including Author Kaplan et al., Cloning of three human tyrosine ph AC protein-tyrosine-phosphatases expressed in brain Sap et al., Cloning and expression of a widely ex AD Sci. USA 87: 6112-6116 (1990) Daum et al., Characterization of a human recomb ΑE Chem., 266: 12211-12215 (1991) Gebbink et al., Cloning, expression and chromosomal localization of a new putative receptor-like protein ΑF tyrosine phosphatase, FEBS Lett. 290: 123-130 (1991) Tsai et al., Isolation and characterization of temperature-sensitive and thermostable mutants of the human AG receptor-like protein tyrosine phosphatase LAR, J. Biol. Chem. 266(16): 10534-10543 (1991) George and Parker, Preliminary characterization of phosphotyrosine phosphatase activites in human peripheral blood lymphocytes: Identification of CD45 as a phosphotyrosine phosphatase, J. Cell Biochem. AH 42: 71-81 (1990) Jirik et al., Cloning of a novel receptor-linked protein tyrosine phosphatase from a human hepatoblastoma ΑI cell line, FASEB J. 4A: 2082 (Abstr. 2253) (1990) Jink et al., Cloning and chromosomal assignment of a widely expressed human receptor-like proteintyrosine phosphatase, FEBS Lett. 273: 239-242 (1990) Krueger et al., Structural diversity and evolution of human receptor-like protein tyrosine phosphatases, ΑK EMBO J. 9: 3241-3252 (1990) Matthews et al., Identification of an additional member of the protein-tyrosine-phosphatase family: Evidence for alternative splicing in the tryosine phosphatase domain, Proc. Natl. Acad. Sci. USA 87: 4444-4448 Ohagi et al., Sequence of a cDNA encoding human LRP (leukocyte common antigen-related peptide), Nucl. Acids Res. 18: 7159 (1990) Streuli et al., Distinct functional roles of the two intracellular phosphatase like domains of the receptor-linked protein tyrosine phosphatases LCA and LAR, EMBO Journal 9: 2399-2407 (1990) Kiener and Mittler, CD45-protein tyrosine phosphatase cross-linking inhibits T-cell receptor CD3-mediated

	AP	Mustelin et al., Rapid activation of the T-cell tyrosine protein kinase pp56lck by the CD45 phosphotyrosine phosphatase, Proc. Natl. Acad. Sci. USA 86: 6302-6306 (1989)
	AQ	Ostergaard et al., Expression of CD45 alters phosphorylation of the lck-encoded tyrosine protein kinase in murine lymphoma T-cell lines, Proc. Natl. Acad. Sci. USA 86: 8959-8963 (1989)
	AR	Hall et al., Complete exon-intron organization of the human leukocyte common antigen (CD45) gene, J. Immunol. 141: 2781-2787 (1988)
	AS .	Streuli et al., A new member of the immunoglobulin superfamily that has a cytoplasmic region homologous to the leukocyte common antigen, J. Exp. Med. 168: 1523-1530 (1988)
	АТ	Charbonneau et al., The leukocyte common antigen (CD45): A putative receptor-linked protein tyrosine phosphatase, Proc. Natl. Acad. Sci. USA 85: 7182-7186 (1988)
	AU	Ralph et al., Structural variants of human T200 glycoprotein (leukocyte-common antigen), EMBO J. 6: 1251-1257 (1987)
	AV	Streuli et al., Differential usage of three exons generates at least five different mRNAs encoding human leukocyte common antigens, J. Exp. Med. 166: 1548-1566 (1987)
	AW	Hariharan et al., Cloning and characterization of a receptor-class phosphotyrosine phosphatase gene expressed on central nervous system axons in Drosophila melanogaster, Proc. Natl. Acad. Sci. USA 88: 11266-11270 (1991)
	AX	Streuli et al., A family of receptor-linked protein tyrosine phosphatases in humans and Drosophila, Proc. Natl. Acad. Sci. USA 86: 8698-8702 (1989)
	AY	Gu et al., Identification, cloning, and expression of a cytosolic megakaryocyte protein-tyrosine-phosphatase with sequence homology to cytoskeletal protein 4.1, Proc. Natl. Acad. Sci. USA 88: 5867-5871 (1991)
	AZ	Lombroso et al., Molecular characterization of a protein-tyrosine-phosphatase enriched in striatum, Proc. Natl. Acad. Sci. USA 88: 7242-7246 (1991)
	ВА	Yang and Tonks, Isolation of a cDNA clone encoding a human protein-tyrosine phosphatase with homology to the cytoskeletal-associated proteins band 4.1, ezrin, and talin, Proc. Natl. Acad. Sci. USA 88: 5949-5953 (1991)
	BB	Chernoff et al., Cloning of a cDNA for a major human protein-tyrosine-phosphatase, Proc. Natl. Acad. Sci. USA, 87: 2735-2739 (1990)
	ВС	Cool et al., Overexpression of a T-cell protein tyrosine phosphatase (PTPase) in BHK Cells, FASEB J. 4: A2078 (abstr. 2230) (1990)
	BD	Guan et al., Cloning and expression of a protein-tyrosine-phosphatase, Proc. Natl. Acad. Sci. USA 87: 1501-1505 (1990)
	8E	Thomas, et al., ABA, A novel member of the tyrosine phosphatase family, FASEB J. 4: A2078 (Abstr. 3140) (1990)
	BF	Tonks et al., CD45, an integral membrane protein tyrosine phosphatase, J. Biol. Chem. 265: 10674-10680 (1990)
·	BG	Charbonneau et al., Human placenta protein-tyrosine-phosphatase: Amino acid sequence and relationship to a family of receptor-like proteins, Proc. Natl. Acad. Sci. USA 86: 5252-5256 (1989)
	Вн	Cool et al., cDNA isolated from a human T-cell library encodes a member of the protein-tyrosine-phosphatase family, Proc. Natl. Acad. Sci. USA 86: 5257-5261 (1989)
	٥,	Tonks et al., Purification of the major protein-tyrosine-phosphatases of human placenta, J. Biol. Chem. 263:

	ВЛ	Tonks et al., Demonstration that the leukocyte common antigen CD45 is a protein tyrosine phosphatase, Biochemistry 27: 8695-8701 (1988)
·	вк	Matthews et al., Characterization of hematopoietic intracelluar protein tyrosine phosphatases: Description of a phosphatase containing an SH2 Domain and another enriched in proline-, glutamic acid-, serine-, and threonine-rich sequences, Molec. and Cell. Biol. 12: 2396-2405 (1992)
	BL	Plutzky et al., Isolation of a src homology 2-containing tyrosine phosphatase, Proc. Natl. Acad, Sci. USA 89: 1123-1127 (1992)
	ВМ	Yi et al., Protein tyrosine phosphatase containing SH2 domains: characterization, preferential expression in hematopoietic cells, and localization to human chromosome 12p12-p13, Mol. and Cell. Biol. 12: 836-846 (1992)
	BN	Shen et al., A protein-tyrosine phosphatase with sequence similarity to the SH2 domain of the protein-tyrosine kinases, Nature 352: 736-739 (1991)
	во	Klarlund, Transformation of cells by an inhibitor of phosphatases acting on phosphotyrosine in proteins, Cell 41: 707-717 (1985)
	ВР	Pallen et al., Purification of a phosphotyrosine phosphatase that dephosphorylates the epidermal growth factor receptor autophosphorylation sites, Ann. N.Y. Acad. Sci. 551: 299-308 (1988).
	BQ	Butler et al., Characterization of a membrane-associated phosphotyrosyl protein phosphatase from the A431 human epidermoid carcinoma cell line, Eur. J. Biochem. 185: 475-483 (1989)
	BR	Cyert and Thomer, Putting it on and taking it off: Phosphoprotein phosphatase involvement in cell cycle regulation, Cell 57: 891-893 (1989)
	BS	Jones et al., Phosphotyrosyl-protein phosphatases, J. Biol. Chem. 264: 7747-7753 (1989)
	вт	Pingel and Thomas, Evidence that the leukocyte-common antigen is required for antigen-induced T lymphocyte proliferation, Cell 58: 1055-1065 (1989)
	BU	Pot and Dixon, A thousand and two protein tyrosine phosphatases, Biochem. Biophys. Acta. 1136: 35-43 (1992)
	BV	Fischer et al., Protein tyrosine phosphatases: A diverse family of intracellular and transmembrane enzymes, Science 253: 401-406 (1991)
,	вw	Hunter, Protein-tyrosine phosphatases: The other side of the coin, Cell 58: 1013-1016 (1989)
	вх	Thomas, The leukocyte common antigen family, Ann. Rev. Immunol. 7: 339-369 (1989)
	BY	Tonks and Charbonneau, Protein tyrosine dephosphorylation and signal transduction, Trends in Biochem. Sci. 14: 497-500 (1989)
	BZ.	Berger et al., Guide to Molecular Cloning Techniques, Meth. Enzymol. 152: 393-399, 415-423, 432-447, 663-704 (1987)
	CA	Towbin et al., 1979, PNAS USA 76(9): 4350-4354
	~CB_	Scopes, Protein Purification: Principles, and Practice (Springer-Verlag, New York, 1987) Duplice
	СС	Zheng et al., 1992, "Cell transformation and activation of pp60° by overexpression of a protein tyrosine
		phosphatase*, Nature 359: 336-339

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